

# HCAPLUS

09/917, 215

June 17, 2002

=> d que

L1 10 SEA FILE=REGISTRY ABB=ON PLU=ON ("PROSTAGLANDIN EP3 RECEPTOR (HUMAN ISOFORM VI)"/CN OR "PROSTAGLANDIN EP3 RECEPTOR (SWINE CLONE P6917)"/CN OR "PROSTAGLANDIN EP3 RECEPTOR (SWINE)"/CN OR "PROSTAGLANDIN EP3.ALPHA. RECEPTOR (RAT KIDNEY CLONE PREP3)"/CN OR "PROSTAGLANDIN EP3.ALPHA. RECEPTOR (RATTUS NORVEGICUS CLONE 15/2)"/CN OR "PROSTAGLANDIN EP3A RECEPTOR (OX ADRENAL MEDULLA)"/CN OR "PROSTAGLANDIN EP3B RECEPTOR (OX ADRENAL MEDULLA)"/CN OR "PROSTAGLANDIN EP3C RECEPTOR (OX ADRENAL MEDULLA)"/CN OR "PROSTAGLANDIN EP3D RECEPTOR (OX ADRENAL MEDULLA)"/CN OR "PROSTAGLANDIN EP3D RECEPTOR (RATTUS NORVEGICUS )"/CN)

L2 4 SEA FILE=REGISTRY ABB=ON PLU=ON ("PROSTAGLANDIN EP2 RECEPTOR (DOG CLONE B3A)"/CN OR "PROSTAGLANDIN EP2 RECEPTOR (HUMAN LUNG)"/CN OR "PROSTAGLANDIN EP2 RECEPTOR (MOUSE CLONE MP412)"/CN OR "PROSTAGLANDIN EP2 RECEPTOR (RATTUS NORVEGICUS CLONE .LAMBDA.19A1)"/CN OR "PROSTAGLANDIN EP2 RECEPTOR (RATTUS NORVEGICUS CLONE SJ26)"/CN)

L3 4 SEA FILE=REGISTRY ABB=ON PLU=ON ("PROSTAGLANDIN EP4 RECEPTOR (DOG CLONE N8D 356-AMINO ACID C-TERMINAL TRUNCATED FRAGMENT)"/CN OR "PROSTAGLANDIN EP4 RECEPTOR (DOG CLONE N8D)"/CN OR "PROSTAGLANDIN EP4 RECEPTOR (HUMAN REDUCED)"/CN OR "PROSTAGLANDIN EP4 RECEPTOR (RATTUS NORVEGICUS CLONE 3/4)"/CN)

L7 303 SEA FILE=HCAPLUS ABB=ON PLU=ON "PROSTANOID RECEPTORS (L) EP3"+OLD/CT

L8 250 SEA FILE=HCAPLUS ABB=ON PLU=ON "PROSTANOID RECEPTORS (L) EP4"+OLD/CT

L9 289 SEA FILE=HCAPLUS ABB=ON PLU=ON "PROSTANOID RECEPTORS (L) EP2"+OLD/CT

L15 7405 SEA FILE=HCAPLUS ABB=ON PLU=ON "DRUG DELIVERY SYSTEMS (L) TOPICAL"+OLD/CT

L16 650 SEA FILE=HCAPLUS ABB=ON PLU=ON "DRUG DELIVERY SYSTEMS (L) GELS, TOPICAL"+OLD/CT

L17 209 SEA FILE=HCAPLUS ABB=ON PLU=ON "DRUG DELIVERY SYSTEMS (L) EMULSIONS, TOPICAL"+OLD/CT

L18 209 SEA FILE=HCAPLUS ABB=ON PLU=ON "DRUG DELIVERY SYSTEMS (L) EMULSIONS, TOPICAL"+OLD/CT

L20 266 SEA FILE=HCAPLUS ABB=ON PLU=ON "DRUG DELIVERY SYSTEMS (L) SOLNS., TOPICAL"+OLD/CT

L22 7405 SEA FILE=HCAPLUS ABB=ON PLU=ON (L15 OR L16 OR L17 OR L18) OR L20

L23 1 SEA FILE=HCAPLUS ABB=ON PLU=ON ((L1 OR L2 OR L3) OR (L7 OR L8 OR L9)) AND L22

L23 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:456890 HCAPLUS

DN 133:79365

TI Prostaglandin E agonists for treatment of dry eye

IN Klimko, Peter G.

PA Alcon Laboratories, Inc., USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000038690	A2	20000706	WO 1999-US29733	19991214
	WO 2000038690	A3	20001123		
		W: AU, BR, CA, JP, MX, US			
		RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
PRAI	US 1998-113574P	P	19981224		
OS	MARPAT	133:79365			
AB	Compns. and methods for the treatment of dry eye and related diseases in mammals utilizing prostaglandin E receptor agonists are disclosed.				
IC	ICM A61K031-557				
CC	63-6 (Pharmaceuticals)				
	Section cross-reference(s): 1				
IT	<b>Prostanoid receptors</b>				
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (EP4, agonists; prostaglandin E agonists for treatment of dry eye)				
IT	<b>Drug delivery systems</b> (topical; prostaglandin E agonists for treatment of dry eye)				

# HCAPLUS

09/917, 215

June 17, 2002

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L1	1330	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"HAIR PREPARATIONS (L) GROWTH STIMULANTS"/CT
L5	97	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP"+OLD/CT
L6	289	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP2"+OLD/CT
L7	303	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3"+OLD/CT
L8	16	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3.ALPHA."+OLD/CT
L9	17	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3.BETA."+OLD/CT
L10	3	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3.GAMMA."+OLD/CT
L11	2	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3C"+OLD/CT
L12	4	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP3D"+OLD/CT
L13	250	SEA FILE=HCAPLUS ABB=ON	PLU=ON	"PROSTANOID RECEPTORS (L) EP4"+OLD/CT
L14	635	SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13)
L15	1	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L1 AND L14

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2001:730519 HCAPLUS  
 DN 135:267274  
 TI prostaglandin EP4 receptor agonists for controlling hair growth  
 IN Kumagai, Hiroki; Yamada, Naohiro; Hayashi, Ryoji; Mori, Takeshi; Isogaya, Masafumi  
 PA Toray Industries, Inc., Japan  
 SO PCT Int. Appl., 79 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072268	A1	20011004	WO 2001-JP2756	20010330
	W: AU, CA, CN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1186287	A1	20020313	EP 2001-917702	20010330
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	JP 2000-97542	A	20000331		
	WO 2001-JP2756	W	20010330		
OS	MARPAT 135:267274				
AB	Disclosed are agents for controlling hair growth or hair formation while showing little side effect. These agents contain 5,6,7-trinor-4,8-inter-m-phenylene PGI2 derivs. as prostaglandin EP4 receptor agonists. Hair growth-promoting activities of the compds. were tested with rabbits.				
IC	ICM A61K007-06				
IC	ICS A61P017-14				
CC	1-12 (Pharmacology)				
	Section cross-reference(s): 62				
IT	<b>Prostanoid receptors</b>				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (EP4; prostaglandin EP4 receptor agonists for controlling hair growth)				
IT	<b>Hair preparations</b>				
	(growth stimulants; prostaglandin EP4 receptor agonists for controlling hair growth)				
RE.CNT	13	THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

# MEDLINE

09/917,215

June 17, 2002

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L17 764 SEA FILE=MEDLINE ABB=ON PLU=ON "RECEPTORS, PROSTAGLANDIN E"/CT  
L18 813 SEA FILE=MEDLINE ABB=ON PLU=ON L17 OR PROSTAGLANDIN(3A) (EP2  
OR EP3 OR EP 4 OR EP4 OR EP 2 OR EP 3)  
L21 2 SEA FILE=MEDLINE ABB=ON PLU=ON L18 AND HAIR?

=> d bib ab hitind 1-2

L21 ANSWER 1 OF 2 MEDLINE  
AN 2002060591 MEDLINE  
DN 21645891 PubMed ID: 11785955  
TI Expression of prostaglandin E(2) receptor subtypes in mouse **hair** follicles.  
AU Torii Eiko; Segi Eri; Sugimoto Yukihiko; Takahashi Kenzo; Kabashima Kenji; Ikai Kohichi; Ichikawa Atsushi  
CS Department of Physiological Chemistry, Faculty of Pharmaceutical Sciences, Kyoto University, Sakyo-ku, Kyoto, 606-8501, Japan.  
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2002 Jan 18) 290 (2) 696-700.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200202  
ED Entered STN: 20020125  
Last Updated on STN: 20020212  
Entered Medline: 20020211  
AB We investigated the mRNA distribution of the prostaglandin (PG) E(2) receptor subtypes and cyclooxygenases (COXs) in **hair** follicles of the mouse dorsal skin. In the 3-week **hair** follicles, which are in the anagen phase, EP3 and EP4 mRNA were expressed in the dermal papilla cells and the outer root sheath cells located in the **hair** bulb region, respectively. In the 8-week **hair** follicles, which are in the telogen phase, the signals for both EP3 and EP4 mRNAs had disappeared. To study the **hair** cycle-dependent expression of mRNAs for the EPs and COXs, an area of dorsal **hair** was depilated from 8-week-old mice. On days 8 and 12 after depilation, EP3 and EP4 mRNA were reexpressed in the dermal papilla cells and the outer root sheath cells, and the induction of COX-2 mRNA was also observed in the outer root sheath cells, the upper area of EP4 expression site. These results suggest that EP3 and EP4 receptors may involve in the development and regrowth of the **hair** follicles.  
CT Check Tags: Animal; Male; Support, Non-U.S. Gov't  
Enzyme Induction: PH, physiology  
    **Hair Follicle: CY, cytology**  
    \***Hair Follicle: ME, metabolism**  
In Situ Hybridization  
Isoenzymes: BI, biosynthesis  
Isoenzymes: GE, genetics  
Mice  
Mice, Inbred C57BL  
Prostaglandin-Endoperoxide Synthase: BI, biosynthesis  
Prostaglandin-Endoperoxide Synthase: GE, genetics

\*RNA, Messenger: BI, biosynthesis  
 \*Receptors, Prostaglandin E: BI, biosynthesis  
 Receptors, Prostaglandin E: GE, genetics  
 CN 0 (Isoenzymes); 0 (RNA, Messenger); 0 (Receptors, Prostaglandin E); EC 1.14.99.- (cyclooxygenase 1); EC 1.14.99.- (cyclooxygenase 2); EC 1.14.99.1 (Prostaglandin-Endoperoxide Synthase)  
 L21 ANSWER 2 OF 2 MEDLINE  
 AN 2001298131 MEDLINE  
 DN 21273355 PubMed ID: 11376908  
 TI Topical bicuculline to the rat spinal cord induces highly localized allodynia that is mediated by spinal prostaglandins.  
 AU Zhang Z; Hefferan M P; Loomis C W  
 CS School of Pharmacy and Division of Basic Medical Sciences, Faculty of Medicine, Memorial University of Newfoundland, St. John's, A1B 3V6, Newfoundland, Canada.  
 SO PAIN, (2001 Jun) 92 (3) 351-61.  
 Journal code: 7508686. ISSN: 0304-3959.  
 CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200108  
 ED Entered STN: 20010903  
 Last Updated on STN: 20010903  
 Entered Medline: 20010830  
 AB The purpose of this study was to investigate the allodynic effect of bicuculline (BIC) given topically to the dorsal surface of the rat spinal cord, and to determine if spinal prostaglandins (PGs) mediate the allodynic state arising from spinal GABA(A)-receptor blockade. Male Sprague-Dawley rats (325-400 g) were anaesthetized with halothane and maintained with urethane for the continuous monitoring of blood pressure (MAP), heart rate (HR) and cortical electroencephalogram (EEG). A laminectomy was performed to expose the dorsal surface of the spinal cord. Unilateral application of BIC (0.1 microg in 0.1 microl) to the L5 or L6 spinal segment induced a highly localized allodynia (e.g. one or two digits) on the ipsilateral hind paw. Thus, hair deflection (brushing the hair with a cotton-tipped applicator) in the presence, but not absence of BIC, evoked an increase in MAP and HR, abrupt motor responses (MR; e.g. withdrawal of the hind leg, kicking, and/or scratching) on the affected side, and desynchrony of the EEG. BIC-allodynia was dose-dependent, yielding ED(50)'s (95% CI's) of 45 ng (31-65) for MAP; 68 ng (46-101) for HR and 76 ng (60-97) for MR. Allodynia was sustained for up to 2 h with repeated BIC application without any detectable change in the location or area of peripheral sensitization. Pretreatment with either the EP(1)-receptor antagonist, SC-51322, the cyclooxygenase (COX)-2 selective inhibitor, NS-398, or the NMDA-receptor antagonist, AP-7, inhibited BIC-allodynia in a dose-dependent manner. The results demonstrate: (a) BIC, applied to the dorsal surface of the spinal cord, induces highly localized allodynia; (b) this effect can be sustained with repeated BIC application; (c) it is evoked by NMDA-dependent afferent input; (d) spinal PGs are synthesized by constitutive COX-2 during BIC-allodynia; and (e) spinal PGs contribute to the abnormal processing of tactile input via spinal EP1-receptors.  
 CT Check Tags: Animal; Male; Support, Non-U.S. Gov't  
 2-Amino-5-phosphonovalerate: AA, analogs & derivatives  
 2-Amino-5-phosphonovalerate: PD, pharmacology

Administration, Topical

\*Bicuculline: PD, pharmacology

Blood Pressure: DE, drug effects

Blood Pressure: PH, physiology

Cyclooxygenase Inhibitors: PD, pharmacology

Dose-Response Relationship, Drug

Electroencephalography: DE, drug effects

Excitatory Amino Acid Antagonists: PD, pharmacology

\*GABA Antagonists: PD, pharmacology

Heart Rate: DE, drug effects

Heart Rate: PH, physiology

Motor Neurons: DE, drug effects

Motor Neurons: PH, physiology

Nitrobenzenes: PD, pharmacology

\*Pain Measurement: DE, drug effects

Pain Measurement: MT, methods

\*Posterior Horn Cells: DE, drug effects

Posterior Horn Cells: PH, physiology

\*Prostaglandins: ME, metabolism

Rats

Rats, Sprague-Dawley

**Receptors, Prostaglandin E: AI, antagonists & inhibitors**

Spinal Cord: DE, drug effects

Spinal Cord: PH, physiology

Sulfonamides: PD, pharmacology

\*Touch: DE, drug effects

Touch: PH, physiology

RN 123653-11-2 (NS 398); 485-49-4 (Bicuculline); 76726-92-6  
(2-Amino-5-phosphonovalerate); 85797-13-3 (2-amino-7-phosphonoheptanoic  
acid)

CN 0 (Cyclooxygenase Inhibitors); 0 (Excitatory Amino Acid Antagonists); 0  
(GABA Antagonists); 0 (Nitrobenzenes); 0 (Prostaglandins); 0 (Receptors,  
Prostaglandin E); 0 (Sulfonamides); 0 (prostanoid receptor EP1)